

4-4. Capacity Building in ASEAN region

4-4-1. Capacity building related to the use of satellite information

4-4-1-1. Purpose

The purpose of this project is to improve the skills and knowledge of administrative personnel in charge of disaster mitigation and disaster risk management so they can effectively use satellite images and data.

4-4-1-2. Contents

This capacity-building program will include seminars, workshops, and training sessions. It will target the ASEAN-8, excluding Malaysia and Singapore, and will consist of the following:

- 1) A survey of users' needs regarding the content of the seminar and training content.
- 2) A one-day seminar in each target country
- 3) A five-day training course in each target country
- 4) A regional workshop

4-4-1-3. Progress

This project is being implemented in cooperation with Asian Institute of Technology (AIT in Bangkok, Thailand).

Last year, a survey of users' needs regarding the seminar/training content was conducted in two countries.

This year, this survey was conducted in five countries.

Seven countries completed the survey of users' needs:

- 1) Indonesia: 22 March 2009: Indonesian National Institute of Aeronautics and Space (LAPAN)
- 2) Philippines: 25 March 2009: Philippine Institute of Volcanology and seismology (PHIVOLCS)
- 3) Lao PDR: 23 April 2009: Remote Sensing Center
- 4) Myanmar: 12 May 2009: Ministry of Science and Technology
- 5) Thailand: 8 Jun 2009: Geo-informatics and Space Technology Development Agency
- 6) Vietnam: 10 July 2009: National remote Sensing Center
- 7) Cambodia: 27 July 2009: Department of Geography



Fig.3-4-1-1 Need survey in Cambodia



Fig.3-4-1-2 Need survey in Vietnam

4-4-2. Development of a Web-Based and GLIDE-Associated Disaster Database

4-4-2-1. Objectives

There are many good reasons to develop and maintain disaster databases. Keeping track of details regarding the losses and damage caused by disasters is useful not only for monitoring the effectiveness of risk reduction measures, but also for gaining a better understanding of risk trends and patterns. Disaster damage and loss data are essential for conducting accurate risk assessments, and provide evidence-based knowledge that is crucial for justifying investments in disaster reduction efforts, prioritizing disaster reduction activities, and measuring the real impact of disasters on development.

The objectives of this project are (1) to organize and assemble past disaster data and to further develop web-based disaster databases using GLIDE (GLlobal Unique Disaster IDentifier) numbers, (2) to integrate disaster database compilation practices by incorporating GLIDE numbers into national and regional disaster databases (Online South East Asia Disaster Inventory, OSADI) in the ASEAN region, and (3) to build regional capacities for disaster risk reduction.

4-4-2-2. Outline

ADRC launched this project last year with the Philippines, Thailand and Lao PDR, and plans to cover all 10 ASEAN member countries within three years. To provide lessons on how GLIDE works and to enable all ASEAN countries to develop their own disaster databases using GLIDE numbers, ADRC has invited national government officials in charge of disaster information in the ASEAN countries to come to Kobe to participate in a two-month training program.

4-4-2-3. Progress

Three government officials were hosted by the ADRC from October to the middle of December 2009: Mr. Azmi Bin Atan (Malaysia), Mr. Meng Hong Ling (Singapore), and Mr. Lam Ngoc Lu (VietNam). During their stay in Kobe and Tokyo, these officials heard lectures on the GLIDE system and practiced using GLIDE numbers by entering disaster records from their own countries into a template prepared by ADRC. They also studied disaster management activities in Japan. They visited national and local governmental offices involved in disaster management, as well as museums, universities, and private companies. A one-week training program was prepared especially for them by Professor Imamura and others at Tohoku University. There they studied the basic theory of numerical tsunami simulation as well as related tsunami risk reduction countermeasures.

4-4-3. Capacity Building Project for Local Government Officials

4-4-3-1. Objectives

Local government officials play pivotal roles in every stage of the disaster management cycle, including preparedness, emergency response, rescue & recovery, and disaster mitigation. However, they have limited opportunities to receive relevant training. This project aims to provide local government officials with opportunities to learn about disasters, disaster management, and technologies for strengthening their capacity to cope with disasters, as well as to develop bases for conducting ongoing disaster risk reduction training in the ASEAN countries in the future.

4-4-3-2. Outline

This project consists of three components: (1) development of an ongoing training system for local government officials, (2) development of training materials and modules based on the disaster characteristics and training needs of each country, (3) the organization of workshops for local government officials.

The Asian Disaster Reduction Center (ADRC) and disaster risk reduction (DRR) organizations in each country work together on selecting training topics, choosing experts to conduct the "training of trainers" (TOT) sessions, and developing training materials based on the disaster background and training experiences of each country. Then the TOT sessions are conducted using the materials developed. After undergoing this training, the TOT participants will then lead workshops for local government officials. If three workshops are held in each country, and these are attended by a total of 90 local government officials, this program could

end up training as many as 900 total officials.

The implementation period of project is from August, 2009 to September, 2011 and is 38 months in total. The following schedule has been agreed upon by each country:

FY 2008 Group (August 2008 – March 2010): Cambodia, Lao PDR, and Vietnam;

FY 2009 Group (May 2009 – December 2010): Brunei Darussalam, Malaysia, Philippines, and Thailand; and

FY 2010 Group (February 2010 – September 2011): Indonesia, Myanmar, and Singapore.

4-4-3-3. Progress

In fiscal 2009, for the countries scheduled to implement the program in the first year, i.e. Lao PDR, Cambodia and Vietnam, the TOT sessions were held in June; and the workshops for local government officials were held in Lao PDR in November and December; in Cambodia in January and February; in Vietnam in January and March. The training materials tailored for each county were developed for the workshops, and the participants of TOT led the workshops.

For the countries scheduled to implement the program in the second year, i.e. Brunei Darussalam, Malaysia, Philippines and Thailand, the kickoff meetings were held in Philippines and Thailand in April, and held in Brunei Darussalam and Malaysia in May. The meetings lasted a couple of days in each location. ADRC and officials in these four countries discussed the training needs of local government officials, and selected topics for training based on those needs, given their countries' respective disaster backgrounds and disaster management systems.

ADRC has been working with each country on selecting experts to give lectures and on developing training materials both in English and the local language. The TOT sessions were held in Brunei Darussalam, Thailand and Philippines, in November 2009, January and March 2010, respectively. In Brunei Darussalam, the first workshop for local government officials was held at Belait in March 2010 and the other workshops are scheduled for 2010. The workshops in the other countries will be scheduled for 2010.

For the countries scheduled to implement the program in the third year, i.e. Indonesia, Myanmar and Singapore, the kickoff meeting will be scheduled for April 2010 in these countries.



Fig. 4-4-3-1 Local Workshop (Lao PDR)



Fig. 4-4-3-2 Local Workshop (Cambodia)



Fig. 4-4-3-4 Local Workshop (Vietnam)



Fig. 4-4-3-4 Local Workshop (Brunei)

4-4-4. Promotion of Disaster Education in Schools

4-4-4-1. Outline

As disaster education in schools is one of the most effective tools for raising awareness for disaster risk reduction, ADRC will train the teachers and develop disaster education materials including textbook and teacher's manual. With the education material and teacher's manual tailored to the each country's context, the pilot classes and the seminars will be held in this project.

This project aims to promote disaster education in ASEAN countries through training of school teachers, pilot lessons by trained teachers and seminars.

4-4-4-2. Progress

ASEAN Secretariat identified the contact person in the Ministry of Education in each country, and ADRC started the project in Indonesia, Thailand and Philippines for the first year.

(1) Indonesia

On 14th May 2009, ADRC held the Kick-off Meeting with the Ministry of National Education of Indonesia. In the meeting, the project outline was explained and latest situation of disaster education in Indonesia was reported.

From 1st to 2nd March 2010, the training of pilot teachers was held in Yogyakarta, Indonesia. More than fifty teachers of primary school, including experts as lecturers, attended this two-day workshop. Participants took lectures about "Latest Situation of Disaster Education in Japan", "Earthquake Disaster Risk Reduction in Japan", "Basic Knowledge about Natural Disaster," and "First aid training" which is effective tool to rescue their students.

From 26th to 27th March, the pilot lesson and the seminar for "Promotion of Disaster Education of Schools" project was held in Yogyakarta, Indonesia. On 26th March, teachers had a lecture "Basic Knowledge about Natural Disaster" for student based on the subjects lectured in the Training of Trainers (TOT) in March 2010. And they also conducted "Evacuation Drill against Earthquake" for students of each class on the same day. And the next day, participants including teachers, experts and the ADRC summarized the whole program of this project during the seminar. It was suggested that continuous activity by themselves and support by national and local government will be necessary for the spread of disaster education.

(2) Thailand

On 23rd June 2009, ADRC held the Kick-off Meeting with Office of the Permanent Secretary and Basic Education Commission, the Ministry of Education of Thailand. In the meeting, the project outline was introduced and the latest situation of disaster education in Thailand was reported. A lot of materials have already been developed; therefore, it is effective to make use of them for our activity. The teaching materials will be drafted for the Training of Pilot Teachers.

(3) Philippines

ADRC visited the Department of Education of Philippines to hold the Kick-off Meeting and explained the project outline and discussed about the details in the context of the latest situation of disaster education in Philippines. According to the Department of Education, disaster education materials for high school level 1 have already been developed; therefore, this project will target the students in elementary school and high school level 2. Hereafter, the education materials will be prepared; followed by the training of teachers.



Fig. 4-4-4-1 Evacuation Drill (Indonesia)



Fig. 4-4-4-2 Kickoff Meeting (Thailand)



Fig. 4-4-4-3 Kickoff Meeting (Philippines)